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TITLE: MONOCLONAL ANTIBODY AGAINST CELL SURFACE RECEPTOR, CONJUGATE AND COMPLEX OF ITS FRAGMENT, ITS PRODUCTION, AND FITTING INTO CELL AND USE THEREOF

PUBN-DATE: April 7, 1998

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## ABSTRACT:

PROBLEM TO BE SOLVED: To obtain the subject conjugate capable of constituting a gene delivery system having high transfection efficiency and targeting a cancer cell by bonding a spacer to a monoclonal antibody, etc., against a receptor being on a cell surface.

SOLUTION: This conjugate of a monoclonal antibody (fragment) against cell surface receptor is obtained by forming a mercapto group by reducing the monoclonal antibody (fragment) against the cell surface receptor to form a mercapto group, bonding a bondable compound to the mercapto group and further bonding a spacer such as polylysine to the bondable compound, or bonding a compound obtained by bonding the bondable compound to the spacer, to the mercapto group of the monoclonal antibody (fragment). The complex is preferably produced by bonding a gene such as a normal gene and the gene inducing anticancer activities to the conjugate.

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